

Docket No.: 43225-44575CUSC
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Jozef J. Van Dun et al.

Application No.: Not Yet Assigned

Confirmation No.:

Filed: Concurrently Herewith

Art Unit: N/A

For: BIMODAL POLYETHYLENE PIPE
COMPOSITION AND ARTICLES MADE
THEREFROM

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. All of the art cited has been cited in a previous related application, i.e. Serial No. 10/222,273. Therefore, no copies of the references are enclosed. However, we will provide any references to the Examiner that he/she may require.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any


patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 10-0447, under Order No. 43225-44575CUSC. A duplicate copy of this paper is enclosed.

Dated: April 2, 2004

Respectfully submitted,

By 

Robert L. Abdon, Ph.D.

Registration No.: 50,996

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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of

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Complete if Known

Application Number	10/222,273
Filing Date	8/16/2002
First Named Inventor	Van Dun
Group Art Unit	1714
Examiner Name	
Attorney Docket Number	43225.44575USPT

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US-3,456,044	07/15/1969	Pahlke	
	2	US-3,485,706	12/23/1969	Evans	
	3	US-3,645,992	02/29/1972	Elston	
	4	US-4,322,027	03/30/1982	Reba	
	5	US-4,340,563	07/20/1982	Appel et al.	
	6	US-4,352,849	10/05/1982	Mueller	
	7	US-4,413,110	11/01/1983	Kavesh et al.	
	8	US-4,597,920	07/01/1986	Golike	
	9	US-4,663,220	05/05/1987	Wisneski et al.	
	10	US-4,668,566	05/26/1987	Braun	
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	12	US-4,820,557	04/11/1989	Warren	
	13	US-4,837,084	06/06/1989	Warren	
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	16	US-4,937,299	06/26/1990	Ewen et al.	
	17	US-4,952,451	08/28/1990	Mueller	
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	21	US-5,089,321	02/18/1992	Chum et al.	

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	22	EP 089,586 A1	09/28/1983	BASF		
	23	WO90/03414 A1	04/05/1990	Exxon Chemical		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	24	Borealis Unveils Borstar - Its New Proprietary Polyethylene Technology, Press Release, October 10, 1995.	
	25	MAPLESTON, P., Infrared Process is Fast and Repeatable, <i>Mod. Plast. Int.</i> , V. 22, No. 10, Oct. 1992, p. 34/8, abstract only.	

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	26	US-5,206,075	04/27/1993	Hodgson, Jr.	
	27	US-5,218,071	06/08/1993	Tsutsui et al.	
	28	US-5,241,031	08/31/1993	Mehta	
	29	US-5,252,017	10/12/1993	Hodel	
	30	US-5,272,236	12/21/1993	Lai et al.	
	31	US-5,278,272	01/11/1994	Lai et al.	
	32	US-5,290,498	03/01/1994	Shiraki et al.	
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	35	US-5,665,800	09/09/1997	Lai et al.	
	36	US-5,683,767	11/04/1997	Shiraki et al.	
	37	US-5,834,393	11/10/1998	Jacobsen et al.	
	38	US-5,908,679	06/01/1999	Berthold et al.	
	39	US-6,043,180	03/28/2000	Jacobsen et al.	
	40	US-6,054,544	04/25/2000	Finlayson et al.	
	41	US-6,218,472 B1	04/17/2001	Debras et al.	
	42	US-6,221,982 B1	04/24/2001	Debras et al.	
	43	US-6,346,575 B1	02/12/2002	Debras et al.	
	44	US-6,441,096 B1	08/27/2002	Backman et al.	
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	46	US-2002/0045711A1	04/18/2002	Backman et al.	

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	47	WO 93/03093	02/18/1993	Exxon Chemicals		
	48	WO 96/16092	05/30/1996	Dow Chemical		
	49	WO 96/28480	09/19/1996	Dow Chemical		
	50	WO 97/19807	06/05/1997	Borealis A/S		
	51	WO 97/33118	09/12/1997	Borealis A/S		
	52	WO 97/43323	11/20/1997	Dow Chemical		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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	53	YERNAUX J., Polymer Developments for Pipe Systems, Polyethylene: The 1990s and Beyond, Conference Proceedings London, 19th-20th May 1992, Paper 16, 42C11 PRI; BP Chemicals Ltd.; Shell Chemicals Ltd.; European Chemical News.	

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	54	US-6,191,227 B1	02/20/2001	Matsuoka, et al.	
	55	US-6,204,349 B1	03/20/2001	Shinohara et al.	
	56	US-6,252,017 B1	06/26/2001	Debras et al.	
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	57	WO 98/27119	06/25/1998	Dow Chemical		
	58	WO 99/14271	03/25/1999	Dow Chemical		
	59	WO 01/05852	01/25/2001	Dow Chemical		
	60	WO 01/02480 A1	01/11/2001	Elenac GMBH		
	61	WO 01/79347 A2	10/25/2001	Borealis Technology OY		
	62	EP 1146078 A1	10/17/2001	Borealis Technology OY		
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	64	EP 1201711 A1	05/02/2002	Atofina Research		
	65	EP 1201713 A1	05/02/2002	Atofina Research		

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	66	BERTHOLD, et al., Advanced Polymerization Process for Tailor-Made Pipe Resins, Plastics Pipe IX, Edinburgh, 9/1995, pp. 433-441.	
	67	BOHM et al., The Industrial Synthesis of Bimodal Polyethylene Grades with Improved Properties, Stud. Surf. Sci. Catal., 1994, pp. 351-63, V. 89.	
	68	BOHM et al., The Microreactor Model-Guideline for PE-HD Process and Product Development, Ziegler Catalysts, 1995, 387-400.	

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	1	US-6,114,483	09-05-2000	Coughlin et al.	
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	2	WO 00/22040	04-20-2000	Borealis Polymers		

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	3	International Search Report, January 22, 2003.	

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